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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/086,582	02/27/2002	Jack Knight III	011003	9024
7590 05/05/2004			EXAMINER	
Trent C. Keisling, Esq.			ABDULSELAM, ABBAS I	
Law Offices of Trent C. Keisling Suite 214			ART UNIT	PAPER NUMBER
1 East Center Street			2674	0
Fayetteville, Al	R 72701	DATE MAILED: 05/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/086,582	JACK KNIGHT III ET AL.				
Office Action Summary	Examiner	Art Unit				
	Abbas I Abdulselam	2674				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by stat  - Any reply received by the Office later than three months after the ma earmed patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Responsive to communication(s) filed on						
	——· nis action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		*(				
Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-19 is/are rejected.  Claim(s) is/are objected to.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of	ccepted or b) objected to be the drawing(s) be held in abeyand rection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a l 13) Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78.  a) The translation of the foreign language 14) Acknowledgment is made of a claim for dome reference was included in the first sentence of	ents have been received. ents have been received in Apriority documents have been reau (PCT Rule 17.2(a)). ist of the certified copies not restic priority under 35 U.S.C. (first sentence of the specifical provisional application has beestic priority under 35 U.S.C. (settic priority under 35 U.S.C.)	oplication No received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Bishop et al. (USPN 5923319) in view of Faris et al. (USPN 6414728).

Regarding claim 1, Bishop teaches a unitary lens filter (Fig. 4 and col. 4, lines 38-47, and col. 5, lines 12-15) for a responsive display device with associated process control equipment having an internal screen adapted to display (col. 6, lines 45-48) process information to facilitate operator control of the process and a sensor (col. 5, lines 59-60) adapted to receive operator control input (col. 5, lines 58-61 and col. 6, lines 1-3), said lens filter (col. 1, lines 10-15 and col. 3, lines 20-25) comprising: a front cover (Fig. 1 and (col. 4, lines 1-3 and Fig. 1 (11, 15, 13)) anchoring said lens filter to the process control equipment (Fig. 1), said front cover defining a central port (Fig. 1 (13) through which said display device may be observed (Fig. 3b and col. 3, lines 50-51) by the operator; a bezel integral with said rear lens for securing said rear lens to said front cover (col. 5, lines 38-40, col. 6, lines 32-36 and Fig. 3 (15)), said bezel having a periphery extending substantially beyond the periphery of said rear lens and wherein said bezel is formed simultaneously with the formation of said rear lens (col. 5, lines 35-41, 55-56 and

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col. 6, lines 12-15), and both are formed by molding or forming to form a shield impenetrable by high pressure liquids to thereby protect said display device (col. 4, lines 20-37); and, an integral reinforcing lens permitting said sensor to receive operator input there through and securing said rear lens periphery to said bezel to stabilize said lens (col. 6, lines 1-3 and Fig. 3(A-B) and thereby substantially dissipate any external force including repetitive operator contact to prevent interruption of operator input when the force is inadvertently applied to said rear lens (col. 6, lines 4-11).

Bishop does not teach "a substantially transparent rear lens filter housed in said central port said rear lens filter permitting an operator to view process control information shown on said display device".

Faris et al. (hereinafter = "Faris") on the other hand teaches a computer system (1) that is operated in its Illuminated Direct Viewing Mode of operation, the performance of which includes moving rear panel (21) and reflective surface (40) against Fresnel lens panel (38) of display panel assembly (10), and then electronically reconfiguring display panel assembly (10) into its direct viewing state of operation. See col. 20, lines 63-67 and col. 21, lines 1-6. Furthermore, Farris teaches that the display panel (10) is constructed with polarization filter (77). See col. 22, lines 13-16.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bishop's display device to adapt Faris's Illuminated Direct Viewing Mode. One would have been motivated in view of the suggestion in Faris that the Illuminated Direct Viewing Mode which includes the use of polarization filter (77) is functionally equivalent to "substantially transparent rear lens"

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filter". The use of Illuminated Direct Viewing Mode helps function a display mechanism with direct projection as taught by Faris.

Regarding claim 2, Bishop teaches the integral bezel includes a peripheral edge surrounding and captivating the sensor and dissipating forces transferred thereto by the bezel (col. 5, lines 55-56 and col. 6, lines 1-3).

Regarding claim 3, Bishop teaches an internal lens retainer adapted to captivate said bezel compressibly against said front cover to secure said lens (col. 6, lines 12-19).

Regarding claim 4, Bishop teaches the said sensor comprises an infrared touch input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 5, Bishop teaches said sensor comprises an acoustic input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 6, Bishop teaches the said sensor comprises an optical input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 7, Bishop teaches the said display comprises a liquid crystal display device or a cathode ray tube display device (col. 5, lines 58-62).

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Regarding claim 8, Bishop teaches integral display lens filter (Fig. 4 and col. 4, lines 38-47, and col. 5, lines 12-15) for an associated process machine adapted to display process (col. 6, lines 45-48) information reviewable by an operator (col. 5, lines 43-44), said lens (col. 1, lines 10-15 and col. 3, lines 20-25) comprising: a front cover (col. 4, lines 1-3 and Fig. 1 (11, 15, 13)) captivating a bezel against an internal lens retainer for securing an integral (col. 6, lines 32-36), wherein said bezel forms a mechanical lock to the machine that provides a liquid tight seal (col. 5, lines 39-40, 55-60 and Fig. 3 (15))); an integral reinforcing edge formed about the periphery of the bezel for diffusing a touch force wherein the touch force is applied to said lens or said rear lens filter (col. 6, lines 1-11); wherein said reinforcing edge, said bezel, said lens and said internal lens retainer form a housing adapted (col. 6, lines 12-19)to protectively captivate a plurality of opposing emitters and receivers disposed around the periphery of said lens, said emitter and receivers forming a grid (Fig. Fig. 5 (803)) over said rear lens (col. 6, lines 20-28) a display disposed behind and adjacent to said lens and adapted to display process information behind said grid (col. 6, lines 28-30) and a controller adapted to interpret interruptions in said grid and providing input coordinates for said interruption (col. 6, lines 26-28; wherein said front cover is secured to the machine to captivate said lens against the machine to protect said display (col. 6, lines 33-39).

Bishop does not teach "substantially transparent rear lens filter and lens to the machine in an operative configuration to display process information through said lens filter and receive operator input through said lens, so said lens filter and said lens are held in place relative to the machine".

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Faris on the other hand teaches a portable computer system (1) that is operated in its Illuminated Direct Viewing Mode of operation the performance of which includes moving rear panel (21) and reflective surface (40) against Fresnel lens panel (38) of display panel assembly (10), and then electronically reconfiguring display panel assembly (10) into its direct viewing state of operation. See col. 20, lines 63-67 and col. 21, lines 1-6. Furthermore, Farris teaches that the display panel (10) is constructed with polarization filter (77). See col. 22, lines 13-16.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bishop's display device to adapt Faris's Illuminated Direct Viewing Mode. One would have been motivated in view of the suggestion in Faris that the Illuminated Direct Viewing Mode which includes the use of polarization filter (77) is functionally equivalent to "substantially transparent rear lens filter". The use of Illuminated Direct Viewing Mode helps function a display mechanism with direct projection as taught by Faris.

Regarding claim 9, Bishop teaches said bezel may be compressibly secured between said cover and said internal retainer to compensate for different rates of expansion and contraction (col. 4, lines 60-63) of said cover and said rear lens while maintaining the mechanical lock and liquid seat and wherein said bezel is a unitary member with said lens and said rear lens filter bezel (col. 5, lines 55-56 and col. 6, lines 1-3).

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Regarding claim 10, Bishop teaches said emitters and receivers comprise infrared emitters and receivers (col. 6, lines 39-4).

Regarding claim 11, Bishop teaches said emitters and receivers 6 comprise acoustic emitters and receivers (col. 6, lines 39-45).

Regarding claim 12, Bishop teaches said emitters and receivers comprise optical emitters and receivers (col. 6, lines 39-45).

Regarding claim 13, Bishop teaches said display comprises a liquid crystal display device or a cathode ray tube display device (col. 5, lines 58-62).

Regarding claim 14, Bishop teaches a computer system display adapted to show process information and receive operator input, said system comprising (LCD, abstract): a system unit in a substantially rigid housing (Fig. 4) with a central access port (Fig. 1 (13)) said system unit comprising an internal display means (col. 6, lines 45-48) for displaying process information in said access port and sensor means for receiving operator input (col. 6, lines 1-3) adjacent said display means (col. 5, lines 55-63); and, an exterior lens assembly covering said access port and having a bezel Fig. 3 with inner edges describing a lens circumscribing said access port (Fig. 1 (11, 15, 13), col. 4, lines 1-3), said bezel made of a polycarbonate material (col. 4, lines 6-8), wherein said lens assembly is adapted to completely prevent liquid entry through said access port (col. 4,

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lines 20-37), said lens assembly captivated to said housing to provide a liquid tight- seal to protect said touch sensor (col. 2, lines 43-65).

Bishop does not teach, "an inwardly placed rear lens filter that covers said access port yet permits the displaying of process information there through".

Faris on the other hand teaches a portable computer system (1) that is operated in its Illuminated Direct Viewing Mode of operation, the performance of which includes moving rear panel (21) and reflective surface (40) against Fresnel lens panel (38) of display panel assembly (10), and then electronically reconfiguring display panel assembly (10) into its direct viewing state of operation. See col. 20, lines 63-67 and col. 21, lines 1-6. Furthermore, Farris teaches that the display panel (10) is constructed with polarization filter (77). See col. 22, lines 13-16.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bishop's display device to adapt Faris's Illuminated Direct Viewing Mode. One would have been motivated in view of the suggestion in Faris that the Illuminated Direct Viewing Mode which includes the use of polarization filter (77) is functionally equivalent to "inwardly placed rear lens filter". The use of Illuminated Direct Viewing Mode helps function a display mechanism with direct projection as taught by Faris.

Regarding claim 15, Bishop teaches a front cover captivating said bezel against an internal lens retainer for securing said lens assembly to said housing in an operative configuration to display process information through said lens filter and receive operator input through said lens, so said lens filter and said lens are held in place relative to said

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housing and wherein said bezel provides a liquid tight seal. (col. 5, lines 55-56 and col. 6, lines 1-3).

Regarding claim 16, Bishop teaches said sensor means comprises an 2 infrared touch input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 17, Bishop teaches said sensor means comprises an acoustic input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 18, Bishop teaches said sensor means comprises an optical input device having opposing banks of emitters and receivers (col. 6, lines 39-45).

Regarding claim 19, Bishop teaches said display means comprises a liquid crystal display device or a cathode ray tube display device (col. 5, lines 58-62).

## Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following arts are cited for further references.

U.S. Pat. No. 5,986,737 to Evanicky et al.

U.S. Pat. No. 6,690,443 to Poliakine

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3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulselam** whose telephone number is (703) 305-8591. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulselam

Examiner

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April 30, 2004

XIAO WU PRIMARY EXAMINER

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